California Regional Water Quality Control Board

Santa Ana Region

Terry Tamminen
Secretary for Environmental Protection

3737 Main Street, Suite 500, Riverside, California 92501-3348
(951) 782-4130 • Fax (951) 781-6288
http://www.swrcb.ca.gov/rwqcb8

M60050.003164
MCAS EL TORO
SSIC NO. 5090.3

August 30, 2004

Base Realignment and Closure
Attn: Mr. F. Andrew Piszkin, P.E.
BRAC Environmental Coordinator
7040 Trabuco Road
Irvine, CA 92618

COMMENTS ON PROPOSAL FOR GROUNDWATER VERIFICATION SAMPLING, FORMER TANK FARM 555, FORMER MARINE CORPS AIR STATION, EL TORO

Dear Mr. Piszkin:

We have reviewed the above referenced document, dated June 22, 2004, which we received on June 24, 2004. We concur with the proposal to collect nine groundwater samples within the tank farm via direct push methods. We request sampling of all the site's groundwater monitoring wells during this sampling effort.

For any questions, please call me at (951) 782-4494, or send email to jbroderic@rb8.swrcb.ca.gov.

Sincerely,

John Broderick
SLIC/DoD Section

cc via e-mail: Ms. Lynn Hornecker, NAVFACENGCOM, Southwest Division

SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CODE 06CC.LMH
File: etswtr22June2004TF555GWVerification

Transmittal

Date: 22 June 2004

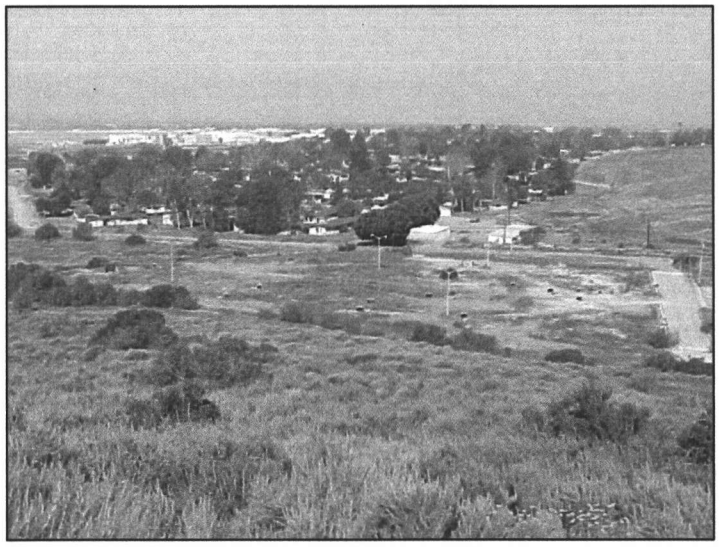
From: Lynn Marie Hornecker

To: **John Broderick**
California Regional Water Quality Control Board
Santa Ana Region
3737 Main Street, Suite 500
Riverside, CA 92501-3348

Subj: Proposal for Groundwater Verification Sampling
Former Tank Farm 555
(Former Underground Storage Tanks (USTs) 547, 548, 549, 550, and 551)
Former Marine Corps Air Station (MCAS), El Toro

The purpose of this transmittal is to present our proposal to verify groundwater conditions within the Former Tank Farm 555 Facility at the Former MCAS El Toro. Former Tank Farm 555 is located in the eastern section of the facility near a former military housing area and in the vicinity of Installation Restoration Program (IRP) Site 17 – Communication Station Landfill.

Photograph 1. Former Tank Farm 555 Vicinity. Date of Photograph: 2003.



Several groundwater monitoring wells that were constructed in 1996 are located near the facility perimeter. Groundwater samples have been collected routinely from one or more of these wells, and results have been published in the data summary reports.

Groundwater sampling within the tank farm facility is proposed in order to identify conditions adjacent to the tanks and the former dry wells that were associated with the tanks. Table 1 includes a narrative description of each proposed sample location. Direct-push sampling equipment is proposed, and samples would be analyzed for total petroleum hydrocarbons and volatile organic compounds. Figure 1 shows the proposed sample locations and the locations of the existing monitoring wells and piezometers.

Table 2 provides information on the existing groundwater monitoring wells and piezometers that were constructed in 1996 that surround the facility.

Exhibit 1 is a facility as-built dated 1985. The as-built shows the locations of valves and pumps along the pipeline within the facility. Some of the proposed sample locations are near former valves on the pipeline.

Following the review and concurrence on the groundwater verification sampling proposal by the RWQCB, we will prepare a sampling and analysis plan to identify specific field sampling and laboratory analytical procedures. A formal transmittal letter may follow.

If you have questions pertaining to the proposed sampling activities, please do not hesitate to contact me at (619) 532-0783.

Attachment
Exhibit 1 - Tank Farm 555 As-Built Drawing dated 1985

CF:
Andy Piszkin
BRAC Environmental Coordinator
Base Realignment and Closure
Marine Corps Air Station, El Toro
7040 Trabuco Road
Irvine, California 92618

CSO El Toro

Project File

Table 1. Proposed Sample Locations.

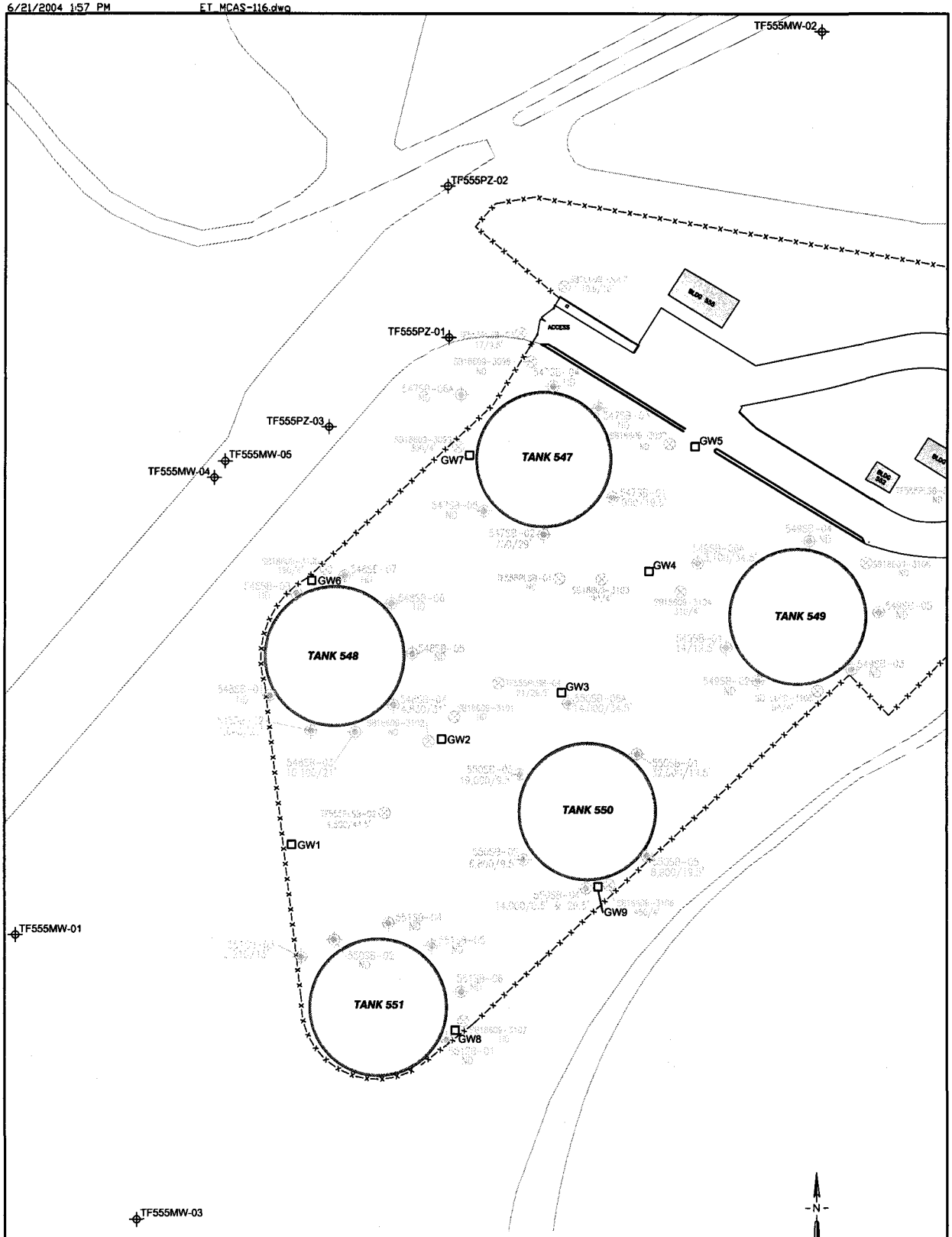
GW SAMPLE LOCATION IDENTIFIER	DESCRIPTION
GW1	Sample is located along the fence on the west side of the facility, between UST 548 and UST 551. The sample is located near the original 8-inch JP5 pipeline and the more recently used 12-inch JP5 pipeline.
GW2	Sample is located between between UST 548 and UST 550, near the former dry well for UST 548.
GW3	Sample is located near the former dry well for UST 550 (near soil boring 550SB06A).
GW4	Sample is located between UST 547 and UST 549, near the former dry well for UST 547.
GW5	Sample is located near a 90-degree bend in the original JP5 pipeline, near the gate at the north end of the facility (near boring SB18609 3097)).
GW6	Sample is located between UST 548 and the facility fence, north of UST 548, and adjacent to soil boring SB18609 3100. The sample is located near a former valve box on the JP5 pipeline.
GW7	Sample is located between UST 547 and the facility fence, west of UST 547, and adjacent to soil boring SB18609 3099. The sample is located near a former valve box on the JP5 pipeline.
GW8	Sample is located between UST 551 and the facility fence, east of UST 551, and adjacent to soil boring SB18609 3107. The sample is located near a former valve box on the JP5 pipeline.
GW9	Sample is located between UST 550 and facility fence, south-southeast of UST 550, and adjacent to soil boring SB18609 3106. The sample is located near a former valve box on the JP5 pipeline.

Table 2. Selected Information from Routine Groundwater Monitoring Program. *

Well Identifier	Description	Monitoring Events
TF555MW-01 (Screened: 179-219 ft)	Located approximately west of facility.	September 1996; February 1997; May 1997; December 1997; March 1998; December 1998; June 1999; December 1999; June 2000; December 2000; July 2001; March 2002
TF555MW-02 (Screened: 25 – 60 ft)	Located approximately northeast of facility.	September 1996; January 1997; May 1997; December 1997; March 1998
TF555MW-03 (Screened: 180-220 ft)	Located approximately west-southwest of facility.	September 1996; February 1997; May 1997; December 1997;
TF555MW-04 (Screened: 89.6 – 109.6 ft)	Located approximately north-northwest of facility.	September 1996; January 1997; May 1997; December 1997; March 1998; December 1998
TF555MW-05 (Screened: 49.5-64.5 ft)	Located approximately north-northwest of facility.	September 1996; January 1997; May 1997; December 1997; March 1998; December 2000; July 2001; June 2002; December 2002; June 2003; December 2003
TF555PZ-01 (Screened: 25 – 50 ft)	Located approximately north of facility.	September 1996; January 1997; May 1997; August 1997; December 1997; March 1998
TF555PZ-02 (Screened: 25 – 50 ft)	Located approximately north of facility.	September 1996; January 1997; May 1997; August 1997; December 1997
TF555PZ-03 (Screened: 25 – 40 ft)	Located approximately north of facility.	September 1996; January 1997; May 1997; December 1997

* Sources of Information: Groundwater Monitoring Data Summary Report (CDM Federal March 2004); Technical Memorandum, Groundwater Data Summary (OHM 2001); Draft Groundwater Monitoring Report (OHM 1997).

6/21/2004 1:57 PM ET_MCAS-116.dwg



LEGEND:

- VERIFICATION BORINGS
- GROUNDWATER MONITORING WELL
- PIPELINE CONFIRMATION SAMPLES
- PROPOSED GROUNDWATER SAMPLE LOCATION
- MAXIMUM CONCENTRATION (mg/kg) OF TOTAL PETROLEUM HYDROCARBONS (TPH) AT SAMPLE DEPTH IN FEET
- NO TOTAL PETROLEUM HYDROCARBON DETECTED AT ANY DEPTH IN THIS BORING
- —x—x— CHAIN LINK FENCE

NOTE: ALL TANKS REMAIN IN PLACE. ALL PIPING AND SOIL SURROUNDING PIPING WAS REMOVED AND EXCAVATION FILLED WITH CLEAN BACKFILL.

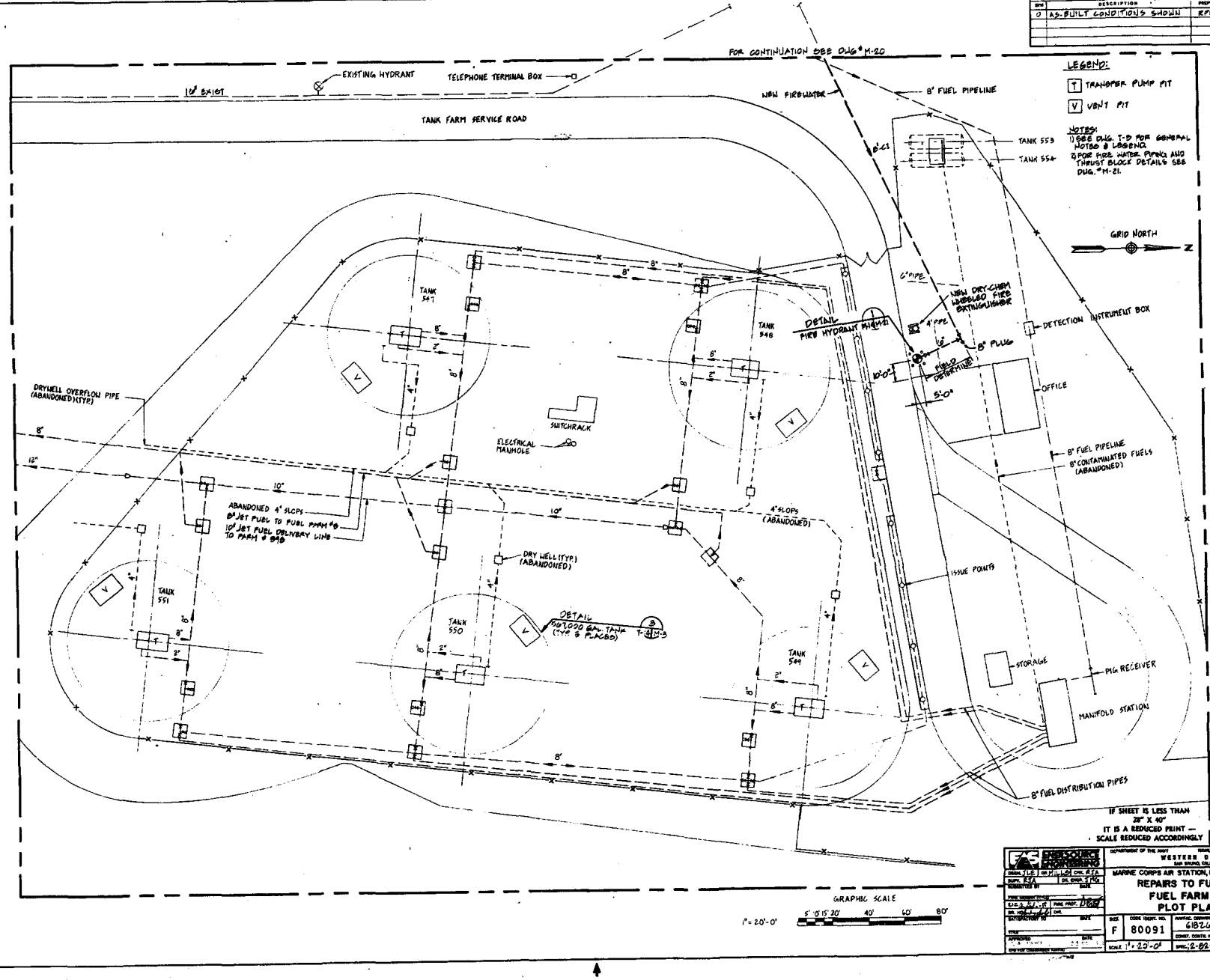
SOUTHWEST DIVISION NAVAL FACILITIES ENGINEERING COMMAND
FORMER MCAS EL TORO, CA
Proposed Groundwater Sampling Locations

FILE NO.		DATE
ET_MCAS-116	Figure 1	6/21/04

SOUTHWEST DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CODE 06CC.LMH
File: etswtr22June2004TF555GWVerification

Attachment

Exhibit 1 - Tank Farm 555 As-Built Drawing



REVISIONS				
SYM	DESCRIPTION	PREPD BY	DATE	APPROVED
0	AS-BUILT CONDITIONS SHOWN	RPM	11-20-86	

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT — SCALE REDUCED ACCORDINGLY

M-14

DEPARTMENT OF THE NAVY	NAVAL FACILITIES ENGINEERING COMMAND
	WESTERN DIVISION
	SAN BRUNO, CALIFORNIA
	MARINE CORPS AIR STATION, EL TORO, CALIFORNIA
	REPAIRS TO FUEL FARMS
	FUEL FARM NO. 555
	PLOT PLAN
	ET-509 M
SIZE F	CODE IDENT. NO. 80091
	FACILITY DRAWING NO. 6182641
	CONST. CONTR. NO. 62-C-0859
SCALE 1" = 20'-0"	SPEC. 2-82-0999
	SHEET 26 OF 71